®

ReadyLINK®

"*Quick Install Guide*"

**Compex
8 Port Dual Speed
Fast Ethernet
Switch**

PS2208A

Version 1.3C

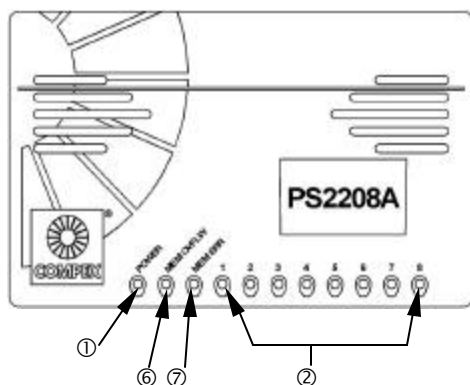**COMPEX** ®

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Figure 1: PS2208A Top View
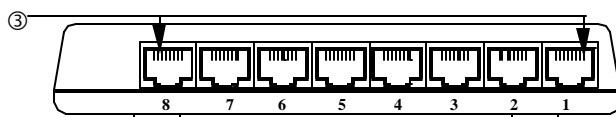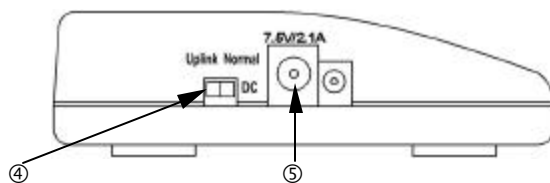
Figure 2: Back Panel View of PS2208A

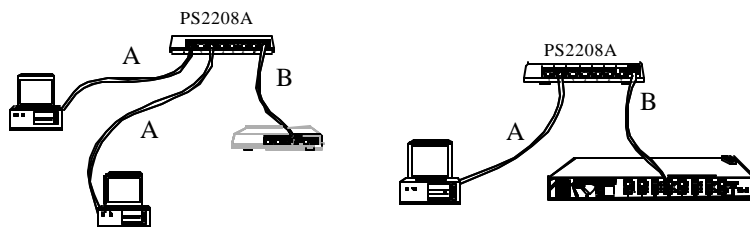**Figure 3: Side View of PS2208A (Magnified)**

PS2208A

PS2208A

Figure 4: PS2208A in a Network

A: Workstation to Hub;
B: Hub cascading using Uplink port.

Contents

"Quick Install Guide"
Compex 8 Port Dual Speed Fast Ethernet Switch (PS2208A)

➢ **Introduction**

The key features of the **Compex 8 Port Dual Speed Fast Ethernet Switch (PS2208A)** are as follows:

♦ Provides high-speed switching between 10Base-T Ethernet segments as well as 100Base-TX Fast Ethernet segments.

♦ Supports 10Base-T to 100Base-TX connectivity, allowing for progressive migration from 10Base-T to 100Base-TX technology.

♦ Provides high throughput because Switches route data packets to destination port instead of broadcasting them to all ports. Alleviates congestion for applications with high-bandwidth requirements such as multimedia applications and large file transfers.

♦ All ports support full auto-negotiation for 10Mbps and 100Mbps speed and half or full duplex mode connection. Thus, switching between 100Base-TX and 10Base-T networks does not require any manual configuration.

♦ Implemented store-and-forward switching scheme prevents the propagation of erroneous packets.

♦ Provides a dynamic memory sharing in/out buffer to ensure fast error free packet storage and transmission, which greatly improves your network performance.

➢ **Package Contents**

♦ 1 PS2208A Unit
♦ 1 Power Adapter
♦ 1 Quick Install Guide
♦ 1 Warranty Card

> ➢ **Hub Features** *(see diagrams on inner cover)*

①	**Power LED**	◆ ON indicates hub is receiving power.
②	**Port LED**	◆ STEADY GREEN: 10M Link
		◆ BLINK GREEN: 10M Activity
		◆ STEADY AMBER: 100M Link
		◆ BLINK AMBER: 100M Activity
③	**8 RJ-45 Ports:**	◆ 8 UTP ports, or 7 ports + 1 Uplink port/Superlink® port.
④	**Uplink Switch**	◆ Configure port#1 as Uplink port when set to Uplink.
		◆ Set port 1 to Normal when slide to LED side.
⑤	**DC Power Jack**	◆ Jack for connection to an external power adapter (7.5V).
⑥	**MEM OVFLW LED**	◆ Memory Overflow LED (Yellow): ON indicates memory full in switching buffer
⑦	**MEM ERR LED**	◆ Memory Error LED (Yellow): ON indicates error occurred in memory.

> ➢ **Features**

- ◆ Separate collision domain on each port allows unrestricted topology implementation for fast Ethernet networks.

- ◆ Each port implements an intelligent unicast address filtering mechanism and a simple learning and aging algorithm, this dramatically reduces inter-segment traffic.

- ◆ Comes in a compact desktop unit.

> ➢ **Specifications:**

◆	**Industrial Standards**	Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX and ANSI/IEEE 802.3 N-Way auto-negotiation standards; FCC Class A; CE mark.
◆	**Interface:**	Each unit has eight 10/100Mbps UTP ports (RJ-45).
◆	**Port Speed/Mode Selection:**	Auto-negotiation
◆	**Link Distance:**	**100Base-TX:** can support up to 100m of 'Category 5' UTP cable to PC, Hub or another Switch.
		10Base-T: can support up to 100m of 'Category 3, 4, and 5' UTP cable to PC, Hub or another Switch.

♦	**LED Indicators**	LED indicators are provided for status monitoring. These include LEDs for system power, port speed, traffic activity and link.
♦	**Dynamic memory sharing In/Out buffer:**	1M Bytes
♦	**Forwarding Method:**	Store-and-Forward.
♦	**Number of MAC Addresses:**	4K MAC Addresses.
♦	**Dynamic Addresses Learning/Filtering:**	Yes.
♦	**Power Supply:**	External 7.5VDC, 2.1A.
♦	**Environment Requirements:**	Temperature: Operating: 0°C to 40°C Storage: -5°C to 60°C Humidity: Operating: 10% to 90%(non-condensing)
♦	**Physical Dimensions:**	148x 90 x 25mm (L x W x H)
♦	**Weight:**	About 0.20 kg
♦	**Safety:**	UL, CSA, TUV/GS.

➢ <u>Installation of PS2208A</u>

PS2208A can be installed on a flat surface (desktop) or mounted on a wall. Follow the steps below for proper installation.

<u>Desktop Installation:</u>

1. Unpack the hub.
2. Choose a location near the devices to be connected and close to an electrical outlet.
3. Set the hub on a desktop or any other clean, smooth, level and sturdy surface.
   Make sure there is enough clearance around the unit to allow attachment of network cables, power adapter and allow air circulation.
4. Connect the power adapter to the hub. The POWER LED and PORT LED for each connected port should light up.
5. The hub is ready to operate.

<u>Wall Installation:</u>

1. Measure the distance between the mounting holes at the bottom of the hub and mark the wall to match the location of the mounting holes on the hub.

2. Drill pilot holes at the two marked locations.
3. Fix two 5/16-inch diameters flat-head mounting screws into the wall, with the heads of the screws protruded 1/8 inch out from the wall.
4. Carefully set the hub over the screws in the wall; then slide the hub down onto the screws, pressing it slight to the wall.
5. Connect the power adapter to the hub. The POWER LED and PORT LED for each connected port should light up.
6. The hub is ready to operate.

➢ **Troubleshooting**

LED Indicators: The Compex Pocket Switch PS2208A is designed with LED indicators to indicate the operating status such as: Power ON/OFF, Activity/Link Status and 10/100Mbps connection status. The LEDs function as useful troubleshooting aids and are found on the front panel of the PS2208A.

LED indicator	Description of Function
Power	*Green LED*. If Power LED does not come ON, check that: ♦ Power adapter unit and cord are properly inserted into the socket and hub.
Port	*Red LED for 10M connection;* *Green LED for 100M connection:* When LED does not turn ON, check that: ♦ Wire pair connections at RJ-45 plug are correct. ♦ RJ-45 plug is fully inserted until you hear a click sound. ♦ The PC is powered-up.

FCC NOTICE: This device has been tested and found to comply with the limits for a **Class A** digital device, pursuant to **Part 15 of the FCC Rules**. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

± Reorient or relocate the receiving antenna.
± Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
± Increase the separation between the computer and receiver.
± Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

FCC Compliance Statement: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

DECLARATION OF CONFORMITY: *Compex, Inc. declares that the product:*

Product Name: *Compex 8 Port Dual Speed Fast Ethernet Switch* Model Number: *PS2208A* **conforms to the following Product Standards:** Radiated Emission Standards: EN55022A, FCC Part 15 Class A; Conducted Emission Standards:EN60555Pt2 conducted emission; EN55022A conducted emission, FCC Part 15 Class A; Immunity Standards: IEC 801-2; IEC 801-3; IEC 801-4, Low Voltage Directive: EN60950. *Therefore, this product is in conformity with the following regional standards:* **FCC Class A** — following the provisions of FCC Part 15 directive; **CE Mark** — following the provisions of the EC directive.

Manufacturer's Name: *Compex, Inc.* Address: *4051 E. La Palma, Unit A, Anaheim, CA 92807, USA* ***European Contact:*** ReadyLINK Networktechnology GmbH, *Technical Support* Albert Einstein Straβe 34 / M21, 63322 Rödermark, Germany [Fax: ++49 (0) 6074 - 90668]	15th March , 2001 _____ *Mr Shi Jia Xiang* *Deputy R&D Manager*

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<u>NOTES</u>

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Technical Support Centers

Contact the technical support center that services your location.

U.S.A., Canada, Latin America and South America

⊠ Write	**Compex, Inc.** 4051 E. La Palma, Unit A Anaheim, CA 92807, USA
☎ Call 🖳 Fax	Tel: (714) 630-7302 (8 a.m.-5 p.m. Pacific time) Fax: (714) 630-6521 BBS: (714) 630-2570 (24-hour access)

Europe

⊠ Write	**ReadyLINK Networktechnology Gmbh** Albert Einstein Straβe 34 / M21 63322 Rödermark, Germany
☎ Call 🖳 Fax	Tel: 49 (0) 6074-98017 (8 a.m.-5 p.m. local time) Fax: 49 (0) 6074-90668 BBS: 49 (0) 6074-93974 (24-hour access)

Asia, Australia, New Zealand, Middle East and the rest of the World

⊠ Write	**Compex Systems Pte Ltd** 135, Joo Seng Road #08-01, PM Industrial Building Singapore 368363
☎ Call 🖳 Fax	Tel: (65) 286-1805 (8 a.m.-5 p.m. local time) Fax: (65) 283-8337 BBS: (65) 282-8854 (24-hour access)

Internet access/	E-mail: **pdsts@compex.com.sg** FTPsite: **ftp.compex.com.sg**
Website:	**http://www.cpx.com** *or* **http://www.compex.com.sg**

Compex Technical Support

"Quick Install Guide"

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**Compex 8 Port Dual Speed
Fast Ethernet Switch**
PS2208A

Manual Number:
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M-0251-V1.3G
M-0251-V1.3R
M-0251-V1.3F
Version 1.3C /G /R/F
March 2001

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